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PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES INSTALLING APS/CPS PEDESTRIAN EQUIPMENT ON THE SOUTH LEG OF THE INTERSECTION, AND THE INSTALLATION OF A NEW TRAFFIC SIGNAL CABINET OF MD 253 (MAYO ROAD) AT WASHINGTON ROAD/MILLHAVEN DRIVE IN ANNE ARUNDEL COUNTY. MD 253 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THIS INTERSECTION OPERATES IN A NEMA FIVE-PHASE FULLY-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR SOUTHBOUND MD 253. THE WASHINGTON ROAD AND MILLHAVEN DRIVE PHASES ARE SPLIT-PHASED. AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED FOR THE SOUTH LEG OF THE INTERSECTION.

III. PEDESTRIAN OPERATION

NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE SOUTH LEG OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

SOUTH: "WAIT TO CROSS MAYO AT MILLHAVEN, WAIT."

WHEN THE WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT

OFFICE OF TRAFFIC AND SAFETY

SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)

MS. KIM TRAN

ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. AVIJIT MAJI CHIEF. TRAFFIC OPERATIONS 410-787-7630

410-841-1019

MR. ROBERT SNYDER

MR. MIKE HUBER UTILITY ENGINEER 410-841-1039

ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630

MR. JOE GECKLE

MR. ED RODENHIZER MANAGER SIGNAL OPERATIONS

ASSISTANT DISTRICT ENGINEER - MAINTENANCE 410**-**841-1013

410-787-7650 MR. EUGENE BAILEY

MR. JAMES FOLDEN

410-397-7835

ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 410-841-1031

410-787-7670 MR. MIKE STOCKER

BALTIMORE GAS AND ELECTRIC MR. MJ MARSHALL - ANNE ARUNDEL COUNTY

SR. DISTRIBUTION DESIGNER

410-787-7668

MANAGER SIGN OPERATIONS

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION ITEM NO. QUANTITY UNIT DESCRIPTION

QUICK CONNECT BLOCK AND HARNESS FOR TELEMETRY INTERFACE PANEL 9104 EA CONTROLLER CABINET, NEMA SIZE "S" WITH CONTROLLER AND VIDEO EQUIPMENT FOR 1-8 CAMERAS FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING

STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.04-13 THROUGH MD 104.04-16

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO. QUANTITY UNIT DESCRIPTION

	40 711111	01111	BESSKII TIGI
2001	40	CY	CLASS 2 EXCAVATION
2002	2	CY	TEST PIT EXCAVATION
5003	450	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	286	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	250	LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	690	SF	5 INCH CONCRETE SIDEWALK
6003	45	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8001	37	EA	12 INCH LED SIGNAL HEAD SECTION
8002	1	EΑ	2-WIRE CENTRAL CONTROL UNIT
8005	1	EΑ	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER
8008	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	1	EΑ	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8013	1	EΑ	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH
8015	1	EA	INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE)
8018	2	EΑ	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8026	2	EΑ	NONINVASIVE DETECTOR (ANY LENGTH) LEAD-IN CABLE UP TO 1000'
8031	1	EA	UNINTERRUPTABLE POWER SUPPLY SYSTEM W/ NEMA SIZE 5 CABINET
8032	3	EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8034	120	LF	1-CONDUCTOR ELECTRICAL CABLE, NO. 2/O AWG/THHN
8038	250	LF .	ELECTRICAL CABLE 2 CONDUCTOR (NO. 12 AWG)
8041	530	LF	UP TO 4 INCH SCHEDULE 90 RIGID PVC CONDUIT-BORED
0040	4.4.5		

UP TO 4 INCH SCHEDULE 90 RIGID PVC CONDUIT-SLOTTED

UP TO 4 INCH SCHEDULE 90 RIGID PVC CONDUIT-TRENCHED

3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER

ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN

NO. 6 AWG STRANDED BARE COPPER WIRE

FURNISH AND INSTALL ELECTRICAL HANDHOLE

ELECTRICAL CABLE 2 CONDUCTOR (NO. 14 AWG)

ELECTRICAL CABLE 5 CONDUCTOR (NO. 14 AWG)

ELECTRICAL CABLE 7 CONDUCTOR (NO. 14 AWG)

Engineers Planners SCIENTISTS CONSTRUCTION MANAGERS 936 RIDGEBROOK ROAD Sparks, Maryland 21152 Telephone: (410) 316-7800 TECHNOLOGIES Fax: (410) 316-7818

110

430

400

20

30

320

410

1320

LF

LF

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

AA - ELECTRICAL CABLE 1-CONDUCTOR NO.8 AWG-THHN/THWN P - ELECTRICAL CABLE 2-CONDUCTOR, (NO. 12 AWG)

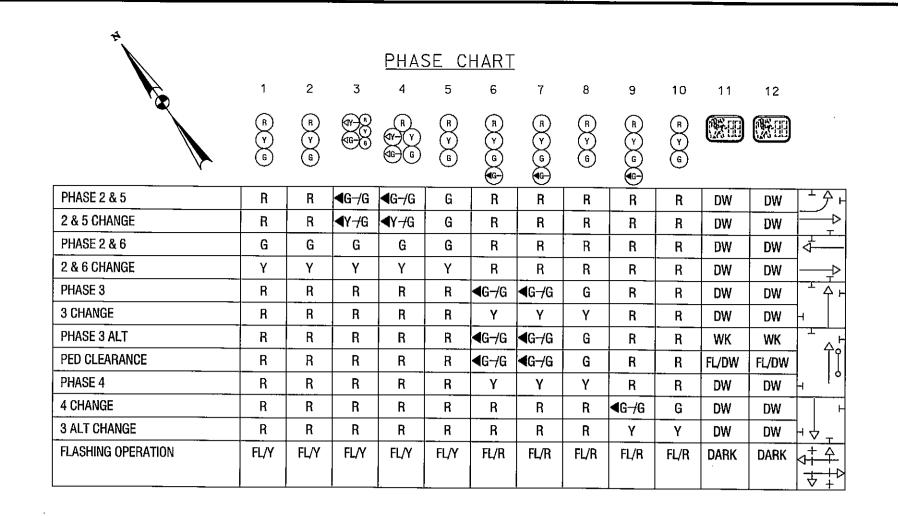
DD - 3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER

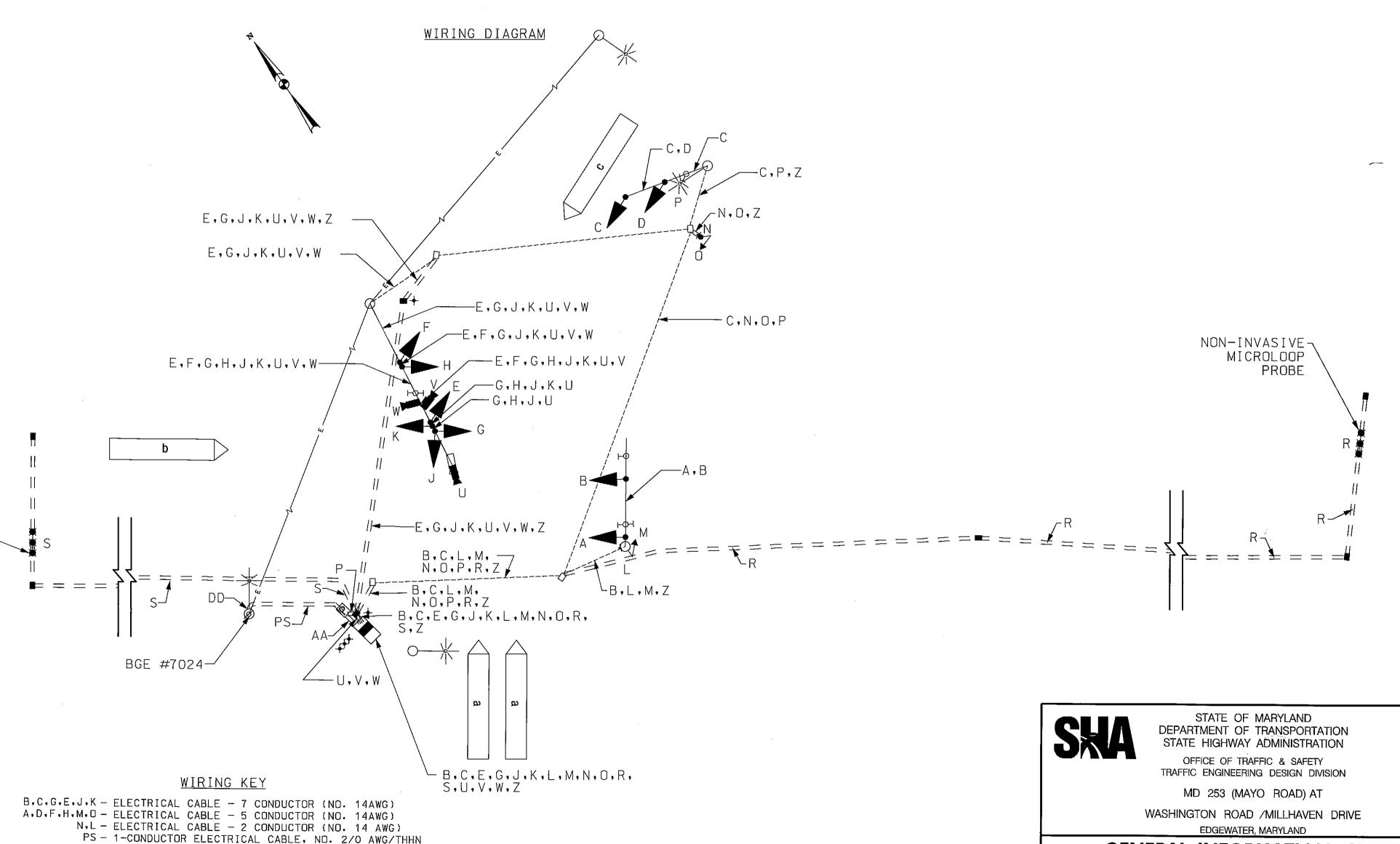
Z - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

R.S - NON-INVASIVE MICROLOOP PROBE LEAD-IN

U, V, W - VIDEO DETECTION CABLE

+ − GROUND ROD





TOD NO: XY139-04 SHA NO: AA189B54 MD 2, MD 214A, MD 253 Various

GENERAL INFORMATION SHEET SCALE NTS ADVERTISED DATE JANUARY 2013 CONTRACT NO. XY1395185

DESIGNED BY JVB/AMH OF KCI DRAWN BY ______JVB_OF_KCI CHECKED BY JFL OF KCI/WH alas F.A.P. NO.

DRAWING SG-3 OF 3

TS NO. 3477-F

COUNTY ANNE ARUNDEL LOGMILE 02025301.07 TOD NO.

SHEET NO. 21 OF 21

PLOTTED: "02:00 PM on Monday, January 21, 2013" FILE: M:\2009\01090619.8t\drawings\pSG-N007_MD2.dgn